RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/767,088A

DATE: 05/15/2001
TIME: 09:35:17

ENTERED

Input Set : A:\PHRM0303.ST25.txt
Output Set: N:\CRF3\05152001\I767088A.raw

RECEIVED

JUN 2 1 2001

TECH CENTER 1600/2900

```
 3 <110> APPLICANT: Gurney, Mark E.
 4        Abraham, Irene
 6 <120> TITLE OF INVENTION: Transgenic Mouse Model Of Human Neurodegenerative Disease
 8 <130> FILE REFERENCE: PHRM0303
10 <140> CURRENT APPLICATION NUMBER: 09/767,088A
11 <141> CURRENT FILING DATE: 2001-01-22
13 <150> PRIOR APPLICATION NUMBER: 60/177,319
14 <151> PRIOR FILING DATE: 2000-01-21
16 <160> NUMBER OF SEQ ID NOS: 15
18 <170> SOFTWARE: PatentIn version 3.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1152
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
26 atggctgagc cccgccagga gttcgaagtg atggaagatc acgctgggac gtacgggttg      60
28 ggggacagga aagatcaggg gggctacacc atgcaccaag accaagaggg tgacacggac     120
30 gctggcctga aagctgaaga agcaggcatt ggagacaccc ccagcctgga agacgaagct     180
32 gctggtcacg tgacccaagc tcgcatggtc agtaaaagca aagacgggac tggaagcgat     240
34 gacaaaaaag ccaagggggc tgatggtaaa acgaagatcg ccacaccgcg gggagcagcc     300
36 cctccaggcc agaagggcca ggccaacgcc accaggattc agcaaaaac cccgcccgct      360
38 ccaaagacac cacccagctc tggtgaacct ccaaaatcag gggatcgcag cggctacagc     420
40 agccccggct ccccaggcac tcccggcagc cgctcccgca ccccgtccct tccaacccca     480
42 cccacccggg agcccaagaa ggtggcagtg gtccgtactc cacccaagtc gccgtcttcc     540
44 gccaagagcc gcctgcagac agcccccgtg cccatgccag acctgaagaa tgtcaagtcc     600
46 aagatcggct ccactgagaa cctgaagcac cagccgggag gcgggaaggt gcagataatt     660
48 aataagaagc tggatcttag caacgtccag tccaagtgtg gctcaaagga taatatcaaa     720
50 cacgtcccgg gaggcggcag tgtgcaaata gtctacaaac cagttgacct gagcaaggtg     780
52 acctccaagt gtggctcatt aggcaacatc catcataaac caggaggtgg ccaggtggaa     840
54 gtaaaatctg agaagcttga cttcaaggac agagtccagt cgaagattgg gtccctggac     900
56 aatatcaccc acgtccctgg cggaggaaat aaaaagattg aaacccacaa gctgaccttc     960
58 cgcgagaacg ccaaagccaa gacagaccac ggggcggaga tcgtgtacaa gtcgccagtg    1020
60 gtgtctgggg acacgtctcc acggcatctc agcaatgtct cctccaccgg cagcatcgac    1080
62 atggtagact cgccccagct cgccacgcta gctgacgagg tgtctgcctc cctggccaag    1140
64 cagggtttgt ga                                                        1152
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 9990
69 <212> TYPE: DNA
70 <213> ORGANISM: Mus musculus
72 <400> SEQUENCE: 2
73 ggcggccgcg acggatccaa aggcagcaaa aaggcagaga gggtgatact gggcctggct      60
75 taagcatttg aaacttcaaa gctcaccccc aattacacac ttcttccaac aagtccacac     120
77 ctcctaatta gtgccactct ctgtgggcct acggagagta ttttcattct aactaccaca     180
79 gttgctgagg aatttaatta aaactacaac cttatcccaa cctagatctt tcagcctttc     240
81 tgtactacca gagaggggtc atacagcatt gttgtgactc ccattataac ttaaagggaa     300
83 gctcacacaa agtccagagc cctccatacc ctgcaaatga agaagtacgt tctcaaatcc     360
85 cttggagcag ggccccactt tggcggcaca aactttaatt tctagacgga acggcatctc     420
```

RAW SEQUENCE LISTING   DATE: 05/15/2001
PATENT APPLICATION: US/09/767,088A   TIME: 09:35:17

Input Set : A:\PHRM0303.ST25.txt
Output Set: N:\CRF3\05152001\I767088A.raw

```
 87 tacagaaaga aaagccatgg tatctgcatg ataagtctga aaaggacctg ggcaaatctg    480
 89 cagctgacaa ttccagccat tgctgccact gcgagaaaac cctgctgatg gcagcattgt    540
 91 cagcatcatc tcctccagga acaccggcca tcgagccacg aggacaattg ctgctgctgg    600
 93 agtcaattca tctgccagcc acatcatact ctgggaccgt cactaaccag atccaagcag    660
 95 ccttgaggaa gcatgtcttc tggtggtgac tgatcccaag ggctgacaac aaggtcctca    720
 97 cagaggcatc ttatgtcaac ctatctacca tgcacggtat aagacacatt ctcctctgtg    780
 99 ctgtgtggac actgccatca cacgcaacag aaaggaaact cactcactgt gtctgatgtg    840
101 gtggtgcttg ttaggggagt tctgggcatg tatggcacca tcgcccatga ggactcctgt    900
103 ggggtcatgc ccactctact cctctagaga ccatgaagag atggagaggg aagagcaagc    960
105 acagatgaca ggctagaact aaagaggagt gtcaggtgag cggacctgaa ctcacggctg   1020
107 ctcagcctga agtggtgtgg ccatctgcat ctggtatctg gtctgaaggt gcgtggatac   1080
109 cctctgtgcc cgtccagaag tttcctactg aagacagaaa tgcctgtcca gtcatggaag   1140
111 aatgattggc agttcccact tctcagacca ctgaatgggt cagaacaact actgggtgac   1200
113 cctaaggtat tcttcagcag atatgtgtga aaaatggaaa gaagatgggt agaaataaac   1260
115 ggtttttagg gaaaaaaact ctcacaaaga tattataaaa agaaaagagc tttattattg   1320
117 agcaagcatt caaccagaat gcacaccaca ggcagtctgc taagggagtg tgcagacagg   1380
119 aggagtgtcg ccctttatgt gagccagtag ataaggatgc tgtgcgtgtt tttagtaact   1440
121 ggtcttcagc ttgacagcac catttatcac atggtttaac ctaaattcat ctggcgaatg   1500
123 aggctgtcac gtacttcctg attagcttta tctgaaatga gacaagcttc acatgttcac   1560
125 ggcaggaggt aatcctgctg cttagagaac agggtccatc caagccaggc tccttctccc   1620
127 accaacacgg gtggttgaag agctatctct ccctggtgtg tgtgtttcag agatggctcc   1680
129 caggtttttg gtttggtttg aattgggttt tggttttctt actctagccc agactagctt   1740
131 ggaattctct ggaaagctgc aacggggagc tcaggttcag tgagagatcc tgtctcaaaa   1800
133 agcagggtga gaagtgattg aggaagacac cccagtgtta acctctgacc tccatatgtg   1860
135 catgcatgga cacgcatgga tacacataca cacacacaca cacacacaca cacacacaca   1920
137 cacacacaca cacacacaaa accagaaaga atgaacgccc ccctcccagc ttgtttacag   1980
139 tagatacaga gcactcgtaa aacatggggt gtaaactgaa tgctgagagt aacttagatg   2040
141 agtaattaag gaaggaagag gaaagaaacc aggaaaccga gagcaagtga ctggaagatc   2100
143 gttaggcaat ctccacaccc tgctcgttga agttggaatg ctttcttctt ctgcctcttg   2160
145 aagttctttg gaagtgctag gatttcacaa ttagtctgtg gtggtttcaa tatgcttcac   2220
147 ccgtggtaag tggcactatt aggaaacgtg tccttgttga aggaagggtg tcactgcata   2280
149 ggcgggcttt gaggtgtctt ccagtgctca agctcctccc agtgcaagag aggcagacac   2340
151 ctgttgcctg cagaagacag tctcctgctg cctttgaatc aagatgtaga actcaagccc   2400
153 catgtctgcc tgaacctctg aaactgtaag ccagccccaa ttaaatgttt tctttcacaa   2460
155 gagttgcctt ggtcatggtg tctgttcaca gcaataaaac cctaactaag acagtcttaa   2520
157 atcaatgaaa agacctttaa ttattcattg aacaaacacc attttcttgt atcaagttgg   2580
159 cagtgactag taagcaacta tagttctgca ccaggggacct ttttggagaa atataccgat   2640
161 ccaagcatgt tggcatctag attccaaagc caagacacct gccacaccct tccatgcctt   2700
163 gggttcctgg caggcatct ggcttcgggg atgtgtattc caggcaccca ctggaatgca   2760
165 tggaaacaat taaaatagca tcatagaaga cattgcaatc ctagggagaa actataccaa   2820
167 aactcagaac tatacctggt taagtgtaga aaagacgaaa ggaataaaac caggaatatt   2880
169 ttaaaatatt tttattgagc tcatgtgcat gggtattttg cctgaaagta tgtctgtgta   2940
171 ccacatgcat ggctggctcc tgcagaggcc aaaagagagc atcagatctc ctagagctgg   3000
173 agtttcagaa gtttgtgagc taccacatgg gtgctggaaa caaaacccag gacatctgga   3060
175 agagcagcca gtgttcttaa ctactgagcc atcactcagg tcccaccatg aatgtttttc   3120
177 tttattcttc tctatatttt ctaatgtttt tattggaaat atacaacttt tgccacacat   3180
179 aacaaatgac caaagaaatg aggtgagagg ggcagctgtt caaatgctgc ctgggaaggc   3240
181 ttggccagcc ctggcttggc tgccctggc tcagctggcc ctgacttggc tgtcccggtg   3300
183 ccagctgtca tctactgctt cataataagc tgcactttgg gctgaagggg tggctcagcc   3360
```

```
283 gcactcagcc ttccgtcgtc aagctcggct cactgcgcct ctcggggcct tgaggccacg 6360
285 gggactagga ctgggactgg gactgggggct gagtctggct gggaggtgac tgtacacccc 6420
287 ctgctgcgcg actcctggag gaaccgaatc ccagggcagc caggccggga gccagccttt 6480
289 ccttcccgag ccagattcac agctcagcat cgctggggat gggggtggca tcttttgact 6540
291 gtccttggct gtttttcttct ctctttgtag tagctacagc gaacataatt ttacctcgtt 6600
293 attccaccac agtcattact cccttgcaca gtttcattct caacgtcgcc gtgcgccttc 6660
295 actgccctgt ctaggcgttt tcatgattgt ctattttctt gtactttgaa taccgtggtt 6720
297 taatagcagt tgcgggtgcg cagaattctc catttcctta agagaaactc ctgggagaat 6780
299 gggactaaag acgtgcaaat ttaattatat cgcaaacagg aatcaaaatt ttgcattaaa 6840
301 atgccaaaca tcttgaaaaa ttaactattc aatgaagaaa aggaactact ttacctacac 6900
303 acacatccga gagcttcgag gaggcgaagg aaatagaaag ctaagggatg atttgggttg 6960
305 tatttgaatc tgacacaagc tttccatatt atttatagca gggactaaac gatgagtcat 7020
307 tttctgaata agatgcaaat taaagcaagt ttgtttgttg tctttacatc tattaaatag 7080
309 acagagacaa tggcaacagc aaccctaacc tagaggttgc ctgaaagtgt caggtttggg 7140
311 aacaagtggc cctgcttaag ggctagaaag attgctttac aaccaacaat catgacttga 7200
313 cattgcctgg ggttcctttt gtctattcct tttttaaaag actagtgttt attttatgtg 7260
315 catgagtgtt ttgcatccac attcgcctgt atacacacct ggttctgtgg aggtcaggag 7320
317 agggtgctgg atgccctggc actagagcct tggatggtta tgtgagcccc tgccacaggg 7380
319 gagctcagaa ccaaatccag gtcctctgga agagcaacca gagctcttaa aacttctaag 7440
321 tatccctcca tcccctttcc atcatatttg gaaaggagaa aactgctacc catgcctggc 7500
323 atttatttca gagattaact gtctgtgtaa aacttgacat tgaaagtgca ctattctgtt 7560
325 tcccattcat acttagttga gactactgta agtcagttag ggcttttttt gtttggttcc 7620
327 ttggttagtt tggagtgtgt ttgtgagctc attaacaggc tttcaatatg tagctggaat 7680
329 ttgctgtgta gaccagacag gcctcaaatt tgtggcaatc ctccctgcat cttcccagaa 7740
331 tgccctggta caggcataaa ccaccgtgcc cagcagtaaa acaatctggt gaggtattat 7800
333 tagtcgtgtg ctgtgaccca gaaaccccac tcctggcaat ttactgggaa ggaacaaaca 7860
335 aagggctagg ggagccatat ggcctgcagt tagagaaaat tagatccaac tgaaaaatca 7920
337 acctaaaggt gtaaaagcca agcagttaag aaactgacaa gctcatgatg gaagccgagg 7980
339 ccatcgtgaa cactcttcat tttaggcccc acgtatcact ggggacaact gagagtcaaa 8040
341 gtacaggtaa ggagaccaag gcttttcagg actcaggctg tctcagtgaa aagcccagaa 8100
343 gagcagtaat tgaaagagct cagacgatgt gtctgatctc ctctgtttgt ttgttgctgt 8160
345 attatttcca ctaacttatt tgggaggaaa aaaaacagtt cacaggcttc ttttcttgaa 8220
347 atactgggga ttgctgggat cgaacccagg gataggtttt tagtttctaa aataacatag 8280
349 atcatgccct gtttgctttt tggaatatgt ttgcgctgcc cttattttca tgttcaaata 8340
351 ctgctccatt ttgcgtgact ctttagtatt ggtttgatga tttgcatatt agattagatt 8400
353 gtatttcagt tctcagactt atttatcaat tctagttttc tcttttgtt gttttaaagg 8460
355 actcctgagt atatttcaga actgaaccat ttcaaccgag ctgaagcatt ctgccttcct 8520
357 agtggtacct cgactatcag gtgaactttg aaccaggatg gctgagcccc gccaggagtt 8580
359 cgaagtgatg gaagatcacg ctgggacgta cgggttgggg gacaggaaag atcaggggggg 8640
361 ctacaccatg caccaagacc aagagggtga cacggacgct ggcctgaaag ctgaagaagc 8700
363 aggcattgga gacacccca gcctggaaga cgaagctgct ggtcacgtga cccaagctcg 8760
365 catggtcagt aaaagcaaag acgggactgg aagcgatgac aaaaaagcca aggggggctga 8820
367 tggtaaaacg aagatcgcca caccgcgggg agcagcccct ccaggccaga agggccaggc 8880
369 caacgccacc aggattccag caaaaacccc gcccgctcca aagacaccac ccagctctgg 8940
371 tgaacctcca aaatcagggg atcgcagcgg ctacagcagc cccggctccc caggcactcc 9000
373 cggcagccgc tcccgcaccc cgtcccttcc aaccccaccc acccgggagc ccaagaaggt 9060
375 ggcagtggtc cgtactccac ccaagtcgcc gtcttccgcc aagagccgcc tgcagacagc 9120
377 ccccgtgccc atgccagacc tgaagaatgt caagtccaag atcggctcca ctgagaacct 9180
379 gaagcaccag ccgggaggcg ggaaggtgca gataattaat aagaagctgg atcttagcaa 9240
```

```
381 cgtccagtcc aagtgtggct caaaggataa tatcaaacac gtcccgggag gcggcagtgt  9300
383 gcaaatagtc tacaaaccag ttgacctgag caaggtgacc tccaagtgtg gctcattagg  9360
385 caacatccat cataaaccag gaggtggcca ggtggaagta aaatctgaga agcttgactt  9420
387 caaggacaga gtccagtcga agattgggtc cctggacaat atcacccacg tccctggcgg  9480
389 aggaaataaa aagattgaaa cccacaagct gaccttccgc gagaacgcca aagccaagac  9540
391 agaccacggg gcggagatcg tgtacaagtc gccagtggtg tctggggaca cgtctccacg  9600
393 gcatctcagc aatgtctcct ccaccggcag catcgacatg gtagactcgc cccagctcgc  9660
395 cacgctagct gacgaggtgt ctgcctccct ggccaagcag ggtttgtgat caggcccctg  9720
397 gggcggtcaa taattgtgga gaggagagaa tgagagagtg tggaaaaaaa aagaataatg  9780
399 acccggcccc cgccctctgc ccccagctgc tcctcgcagt tcgggaattc ggatccagat  9840
401 cttattaaag cagaacttgt ttattgcagc ttataatggt tacaaataaa gcaatagcat  9900
403 cacaaatttc acaaataaag cattttttc actgcattct agttgtggtt tgtccaaact  9960
405 catcaatgta tcttatcatg tctggtcgac                                    9990
408 <210> SEQ ID NO: 3
409 <211> LENGTH: 25
410 <212> TYPE: DNA
411 <213> ORGANISM: Artificial Sequence
413 <220> FEATURE:
414 <221> NAME/KEY: misc_feature
415 <223> OTHER INFORMATION: Primer
418 <400> SEQUENCE: 3
419 agtaattgaa agagctcaga cgatg                                          25
422 <210> SEQ ID NO: 4
423 <211> LENGTH: 23
424 <212> TYPE: DNA
425 <213> ORGANISM: Artificial Sequence
427 <220> FEATURE:
428 <221> NAME/KEY: misc_feature
429 <223> OTHER INFORMATION: Primer
432 <400> SEQUENCE: 4
433 tgtcaccctc ttggtcttgg tgc                                            23
436 <210> SEQ ID NO: 5
437 <211> LENGTH: 22
438 <212> TYPE: DNA
439 <213> ORGANISM: Artificial Sequence
441 <220> FEATURE:
442 <221> NAME/KEY: misc_feature
443 <223> OTHER INFORMATION: Primer
446 <400> SEQUENCE: 5
447 gtactccacc caagtcgccg tc                                             22
450 <210> SEQ ID NO: 6
451 <211> LENGTH: 23
452 <212> TYPE: DNA
453 <213> ORGANISM: Artificial Sequence
455 <220> FEATURE:
456 <221> NAME/KEY: misc_feature
457 <223> OTHER INFORMATION: Primer
460 <400> SEQUENCE: 6
461 gcagcagcat cgaagcttct cag                                            23
```

VERIFICATION SUMMARY   DATE: 05/15/2001
PATENT APPLICATION: US/09/767,088A   TIME: 09:35:18

Input Set : A:\PHRM0303.ST25.txt
Output Set: N:\CRF3\05152001\I767088A.raw

US 097670880FP1

Creation date: 11-12-2003
Indexing Officer: TROBINSON - TERRI ROBINSON
Team: OIPEBackFileIndexing
Dossier: 09767088

Legal Date: 08-23-2001

No.	Doccode	Number of pages
1	IDS	7
2.	NPL	2

Total number of pages: 9

Remarks:

Order of re-scan issued on ....